Promov®



Signal Level

Lightning Protection Devices

TAIHANG GUARANTEES SAFETY

TAIHANG GUARANTEES SAFETY



Founded in 2004, XIAMEN TAIHANG TECHNOLOGY CO., LTD is the manufacturer of lightning protection device, lightning protection related system and EMC protection with more than 1100 square meters China national CNAS laboratory. SPD specified disconnector developed by XIAMEN TAIHANG TECHNOLOGY has affected some national and industry standard amendment and gained Second prize of science and technology of China communications association. Cooperating with SINOPEC Safety and engineering institute, XIAMEN TAIHANG TECHNOLOGY set up "Lightning warning joint R&D center" and undertakes lightning warning system construction and R&D work for lightning warning in Military. Lightning warning system and smart lightning protection system developed by XIAMEN TAIHANG has achieved safety, datamation and network to provide high quality of lightning protection for construction electrical, rail transportation, airport, military, petrifaction ect.



Lightning protection: safety, datamation and network of lightning protection system products provide lightning protection, EMC protection, lightning warning, lightning information record for petrifaction, high speed train, telecommunication, national defense etc. As far, Taihang has 15 invention patents and 29 utility model patent. Strong R&D team is composed of talents from computer software develop, SCM application, telecommunication technology, lightning protection technology, EMC protection, mechanical technology. Meanwhile, XIAMEN TAIHANG has formed deep technical cooperation with Tongji university and Nanjing Information Engineering University, which is also the guarantee of strong product R&D and technology innovation capcapability.

Electrical: Many industrial-grade standard AC/DC PDUs (Power Distribution Units) manufactured by Taihang Electrical Division rank the first in the same line with the electric parameters such as high insulation level, reversed insertion force control, overload temperature rising, and durcapability, providing the supporting services for the equipments cabinet manufacturers in IT industry both at home and abroad.

Electric: The industrial-grade SCR high-speed switches for power factor correction and automatic reclosers for miniature circuit breakers manufactured by Taihang Electric Division, with the high performance cost, provide supporting services for the foreign customers from Malaysia, Germany, Turkey and Russia, etc.

Appliance: The desktop with the function of testing data printing and portable multi-function lightning protection elements testers produced by Taihang Instrument Division, have been used in the domestic military, lightning protection testing center of meteorological system and lightning protection elements manufacturers.



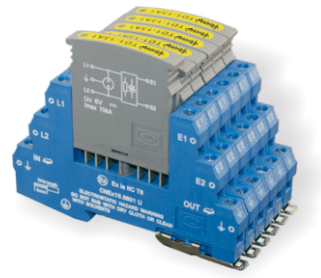
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TD1-13 SERIES SPD FOR PROCESS CONTROL SIGNAL

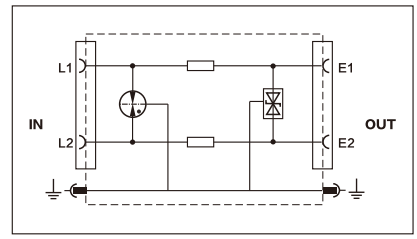
TD1-13A series product, an invention patent product, is applied in signal protection for DCS system with hot pluggable and failure indicator functions. Adopting Extensive comments from engineers in iron and steel, petroleum, chemical industries etc, it firstly realized failure tripping technology to guarantee normal signal transmission under product failure situation. It is the ultimate surge protection solution for process equipment, I/O system and communication networks. It adopts slim space-saving design with LED failure indicator.

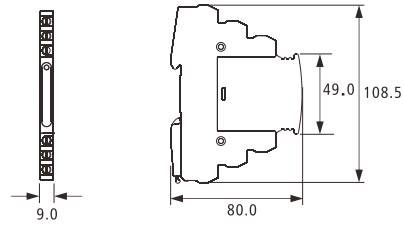


TWO-WIRE DCS CONTROLLED SIGNAL SPD

TECHNICAL PARAMETERS:

MODEL	TD1−13A1	TD1−13A2	TD1−13A3	TD1−13A4	TD1−13A5	TD1−13A6	TD1−13A9
	Allow hot plugging			Not allow hot plugging			
Electrical Parameters							
Rated Operating Voltage **Un**	5VDC	12VDC	24VDC	5VDC	12VDC	24VDC	130VDC
Max Continuous Operating Voltage **Uc**	6VDC	15VDC	36VDC	6VDC	18VDC	32VDC	180VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA						
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA						
D1 Discharge Current(10/350μs)	1kA	1kA	1kA	1kA	1kA	1kA	1kA
C3 Voltage Protection Level **Up**	15V	25V	60V	15V	25V	60V	240V
Rated Load Current **IL**	200 mA	200 mA	200 mA	1000 mA	1000 mA	1000 mA	200 mA
Respond Time tA	<1ns	<1ns	<1ns	<1ns	<1ns	<1ns	<1ns
Common Parameters							
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor temp)	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%
Online Replacement	No signal interruption			Signal interruption			
Application Range	1-5V LONWORKS FIP Bus RS485 DEVICENET FIELDBUS DEVICENET	1-10V Profibus FMS RS232	4-20mA WorldFIP HART Safety flare	High accuracy signal source	High accuracy signal source	High accuracy signal source	telephone wire

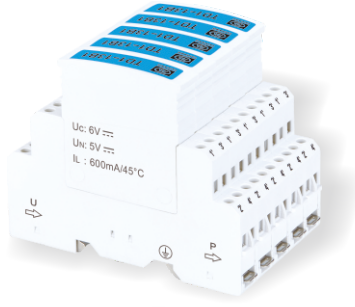


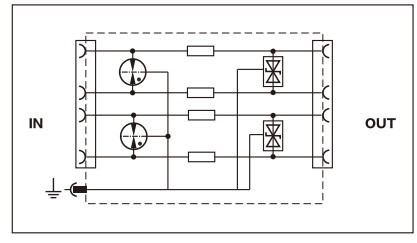


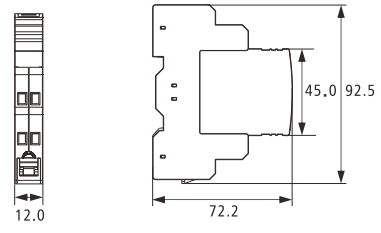
FOUR-WIRE DCS CONTROLLED SIGNAL SPD

TECHNICAL PARAMETERS:

MODEL	TD1−13B1	TD1−13B2	TD1−13B3	TD1−13B4	TD1−13B5	TD1−13B6
	Allow hot plugging			Not allow hot plugging		
Electrical Parameters						
Rated Operating Voltage **Un**	5VDC	12VDC	24VDC	5VDC	12VDC	24VDC
Max Continuous Operating Voltage **Uc**	6VDC	15VDC	36VDC	6VDC	15VDC	36VDC
C2 Nominal Discharge Current(8/20μs) **In**	10kA					
C2 Maximum Discharge Current(8/20μs) **Imax**	20kA					
D1 Discharge Current(10/350μs)	2.5kA	2.5kA	2.5kA	2.5kA	2.5kA	2.5kA
C3 Voltage Protection Level **Up**	15V	25V	60V	15V	25V	60V
Rated Load Current **IL**	600 mA	600 mA	600 mA	600 mA	600 mA	600 mA
Respond Time tA	<1ns	<1ns	<1ns	<1ns	<1ns	<1ns
Common Parameters						
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor temp)	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%
Online Replacement	No signal interruption			Signal interruption		
Application Range	1-5V LONWORKS FIP Bus RS485 DEVICENET FIELDBUS DEVICENET	1-10V Profibus FMS RS232	4-20mA WorldFIP HART Safety flare	High accuracy signal source	High accuracy signal source	High accuracy signal source







TD2–06 SERIES VIDEO SIGNAL SPD

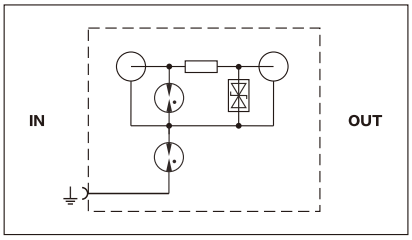
Video signal SPD is used for video wire of monitoring system, BNC interfaces of optical transceiver, BNC interfaces of monitoring system's surge protection. It has the equipotential link design to discharge surge to the ground when it occurs and limit the output voltage at a safety value.

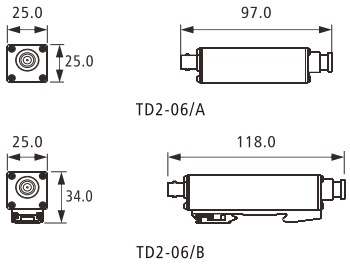


- ► Fast response;
- ► High current flux with strong capability of discharging huge surge.
- ► Low insertion loss, no leakage current; and stable transmission performance.
- ► Variety of installations to satisfy different customers' demands.
- ► Protecting from transient overvoltage on coaxial signal data line.
- ► Mainly installed in series to DVR and CCTV DVR.

TECHNICAL PARAMETERS:

MODEL	TD2–06/A	TD2-06/B
Electrical Parameters		
Rated Operating Voltage **Un**	5VDC	5VDC
Max Continuous Operating Voltage **Uc**	6VDC	6VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA	5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA
C3 Voltage Protection Level **Up**	X–X ⩽17V、X–C⩽600V	X–X ⩽17V、X–C⩽600V
Common Parameters		
Insertion Loss	⩽0.5dB	⩽0.5dB
Respond Time	＜1ns	＜1ns
Interface Protection Mode	BNC(75Ω)	BNC(75Ω)
Cut-off Frequency	65MHz	65MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%
Installation Mode	A:without rail	B:with 35mm's rail





TD2–06 SERIES RACK-MOUNTED VIDEO SIGNAL SPD

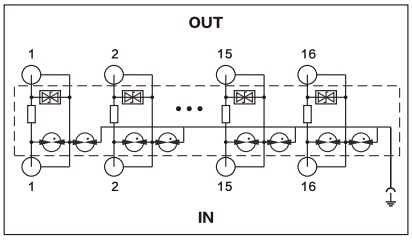
Video signal SPD is used for video wire of monitoring system, BNC interfaces of optical transceiver, BNC interfaces of monitoring system, matrix BNC interface's surge protection. It has the equipotential link design to discharge surge to the ground when it occurs and limit the output voltage at a safety value.

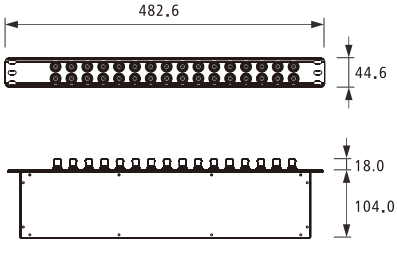


- ► Fast response and high current flux with strong capability of discharging huge surge.
- ► Variety of installations to satisfy different customers' demands.
- ► Low insertion loss, no leakage current; and stable transmission performance.
- ► Standard rack installation, suitable for 16 BNC interfaces

TECHNICAL PARAMETERS:

MODEL	TD2-06-16
Electrical Parameters	
Rated Operating Voltage **Un**	5VDC
Max Continuous Operating Voltage **Uc**	6VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA
D1 Discharge Current(10/350μs)	1kA
C3 Voltage Protection Level **Up**	X–X ⩽17V、X–C⩽600V
Common Parameters	
Insertion Loss	⩽0.5dB
Respond Time	＜1ns
Interface Protection Mode	BNC(75Ω)
Interface Amounts	16
Cut-off Frequency	65MHz
Operating Temperature Range	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%





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TD2-14/POE SERIES NETWORK AND POWER SOURCE (TWO-IN-ONE) SPD

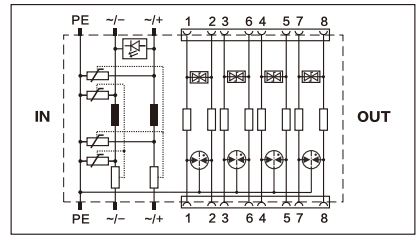
TD2-14/POE SPD is specialized for surge protection for POE video and network camera. It has the design of equipotential link, which links between the system's incoming line and protected equipment. When the surge comes, it will be discharged to the earth, which limits the output voltage at a safety value.

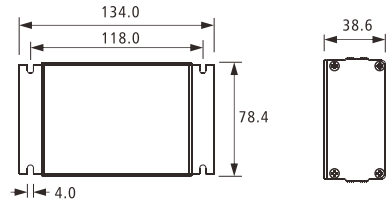


- ► Fast respond and high current flux with the strong capability of discharging surge.
- ► Low insertion loss, no leakage current; and stable transmission performance.
- ► LED indicators, for failure of lightning protection.
- ► Surge protection, designed for network and integrated camera.

TECHNICAL PARAMETERS:

	Power supply protection			Network protection	
MODEL	TD2−14/POE−220	TD2-14/POE−24	TD2-14/POE−12	Signal	Power source
Electrical Parameters					
Rated Operating Voltage **Un**	220VAC	24VAC/DC	12VAC/DC	5VDC	48V
Max Continuous Operating Voltage **Uc**	320VAC	30VAC/DC	15VAC/DC	6.5VDC	60V
C2 Nominal Discharge Current(8/20μs) **In**	5kA	5kA	5kA	2.5kA	
Max Discharge Current(imax)(8/20μs)	10kA	10kA	10kA	\	
C2 Maximum Discharge Current(8/20μs) **Imax**	\	\	\	10kA	
D1 Discharge Current(10/350μs)	\	\	\	1kA	
C3 Voltage Protection Level **Up**	⩽1000V	⩽180V	⩽180V	X−X⩽22V X−C⩽600V	X−C⩽600V
Nominal Current	5A	5A	5A	300mA	600mA
Respond Time	<25ns	<1ns	<1ns	<1ns	
Loop-impedance	⩽0.05Ω	⩽0.05Ω	⩽0.05Ω	2Ω	1Ω
Insertion Loss	\	\	\	⩽0.5dB	
Cut-off Frequency	\	\	\	100MHz	
Interface Mode	Line pressing side	Line pressing side	Line pressing side	RJ45 1/2,3/6,4/5,7/8	
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%	⩽95%	⩽95%	





TD2-14 SERIES COMBINED VIDEO MONITORING SPD

This production is specialized for surge protection of monitoring gun camera, dome camera. It has the combination of power source, video, autocontrol lightning protection with three-in-one or two-in-one.
Two-in-one: lightning protection for the camera power source and video signal;
Three-in-one: lightning protection for the camera power source, video signal, and pan-tilt-zoom control.

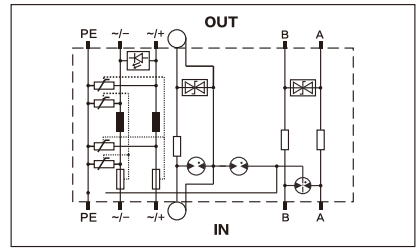


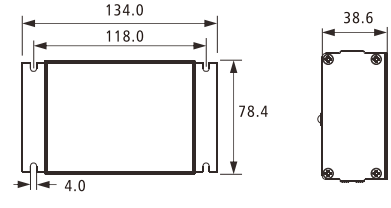
two-in-one three-in-one

- ► Respond fast and high current flux with strong capability of discharging huge surge.
- ► Low insertion loss, no leakage current; and stable transmission performance.
- ► LED indicators, for failure of thunder protection.
- ► Surge protection, designed for network and integrated camera.

TECHNICAL PARAMETERS:

	Power supply protection			Video/audio protection	Pan-tilt-zoom protection
MODEL(two-in-one)	TD2−14/2−220	TD2-14/2−24	TD2-14/2−12		
MODEL(three-in-one)	TD2−14/3−220	TD2-14/3−24	TD2-14/3−12		
Electrical Parameters					
Rated Operating Voltage **Un**	220VAC	24VAC/DC	12VAC/DC	5VDC	5VDC
Max Continuous Operating Voltage **Uc**	320VAC	36VAC/DC	18VAC/DC	6. 5V	8V
C2 Nominal Discharge Current(in) (8/20μs) **In**	5kA	5kA	5kA	5 kA	5 kA
Max Discharge Current (8/20μs) **Imax**	10kA	10kA	10kA	\	\
C2 Maximum Discharge Current(8/20μs) **Imax**	\	\	\	1 0 kA	1 0 kA
D1 Discharge Current(10/350μs)	\	\	\	1kA	1kA
C3 Voltage Protection Level **Up**	⩽1000V	180V	180V	X−X⩽20V X−C⩽600V	X−X⩽26V X−C⩽600V
Nominal Current	5A	5A	5A	500mA	500mA
Responding Time	<25ns	<25ns	<25ns	<1ns	<1ns
Loop-impedance	⩽0.05Ω	⩽0.05Ω	⩽0.05Ω	2Ω	1.5Ω
Insertion Loss	\	\	\	⩽0.5dB	⩽0.5dB
Cut-off Frequency	\	\	\	65MHz	50MHz
Interface Mode	Line-pressing side	Line-pressing side	Line-pressing side	BNC	Line-pressing side
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity (indoor Temp)	⩽95%	⩽95%	⩽95%	⩽95%	⩽95%





TD3 SERIES ANTENNA-FEEDER

This product is specialized for surge protection of antenna-feeder wire and radio frequency wire, such as GSM base station, PHS (personal handphone system) ,satellite receiver and interphone base station. It has reliable, easy wiring. When the surge comes, it will be discharged to the earth, which limits the output voltage at a safety value.

- ► Wide range of frequency with low VSWR.
- ► Low output residual voltage.
- ► High current flux with strong capability of discharging huge surge.
- ► High-quality and fast clamping semiconductor with accurate clamping voltage.



TD3-05/N1



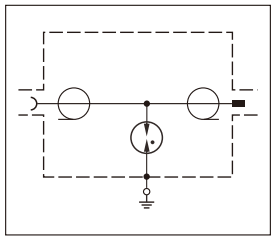
TD3-06/N1

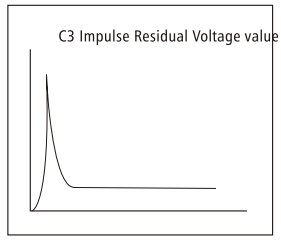


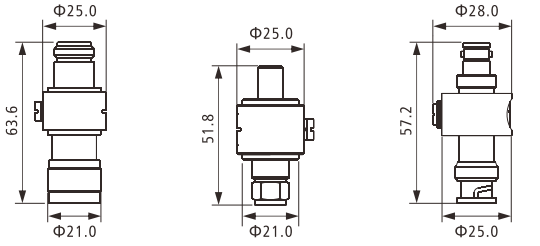
TD3-07/N1

TECHNICAL PARAMETERS:

MODEL	TD3−05/N1	TD3-06/N1	TD3-07/N1
Electrical Parameters			
C2 Nominal Discharge Current(8/20) **In**	20kA	10kA	10kA
Peak Power	200W	200W	200W
D1 Discharge Current	5kA	5kA	5kA
C3 Voltage Protection Level **Up**	⩽800V	⩽800V	⩽800V
Common parameters			
Standing Wave Radio(swr)	＜1.2	＜1.2	＜1.2
Insertion Loss	⩽0.3dB	⩽0.3dB	⩽0.3dB
Frequency Range	DC-3GHZ	DC-2.5GHZ	DC-2.5GHZ
Characteristic Impedance	50Ω	50Ω	75Ω
Wiring Interface	N（JK）	BNC（JK）	F（JK）
Protection Level	IP67	IP67	IP67
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity (indoor Temp)	⩽95%	⩽95%	⩽95%







QL SERIES ANTENNA-FEEDER SIGNAL SPD: EXCLUSIVE FOR SATELLITE COMMUNICATION

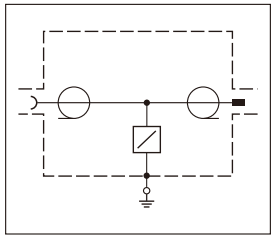
The TVS technology is adopted in this product, which is the first manufacturer to solve the technical problem about antenna-feeder SPD; This type of SPD has been used in military for years, and realized the lightning protection for antenna-feeder wire's high-frequency signal transmission and power-supply.

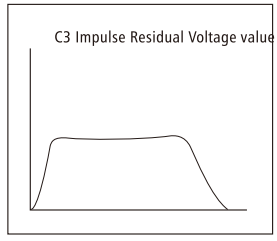
- ► Wide range of frequency with low VSWR.
- ► Low Insertion loss, no leakage current; and stable transmission performance.
- ► Strong capability of discharging huge current.
- ► Convenient and easy installing.

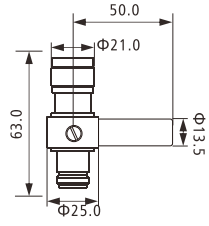


TECHNICAL PARAMETERS:

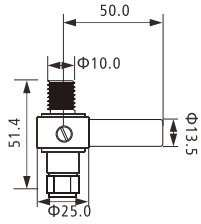
MODEL	QL−N	QL−F
Electrical Parameters		
C2 Nominal Discharge Current(8/20) **In**	5kA	5kA
Rated Operating Voltage **Un**	18VDC	18VDC
Max Continuous Operating Voltage **Uc**	24VDC	24VDC
C3 Voltage Protection Level **Up**	⩽55V	⩽55V
Common parameters		
Standing Wave Radio(swr)	＜1.2	＜1.2
Insertion Loss	⩽0.5dB	⩽0.5dB
Respond Time	<1ns	<1ns
Characteristic Impedance	50Ω	50Ω
Wiring Interface	NJK	FJK
Frequency Range	DC~1.45GHz	DC~1.45GHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃
Operating Relative Humidity (indoor Temp)	⩽95%	⩽95%
Operating Altitude	⩽3000m	⩽3000m







QL−N



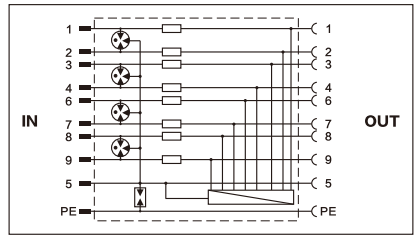
QL−F

TD7-08 SERIES SERIAL PORT SIGNAL SPD

This product incorporate with D89 interface is specialized for all kinds of RS232 and DB9 serial port devices. It has easy and reliable wiring. When the surge comes, it will be discharged to the earth, which limits the output voltage at a safety value.

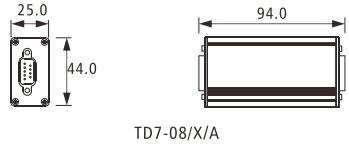


- ► Fast response;
- ► Low insertion loss, making sure that there's no interference of signal transmission;
- ► High current flux with strong capability of discharging huge surge
- ► High-quality fast clamping semiconductor with accurate clamping voltage.

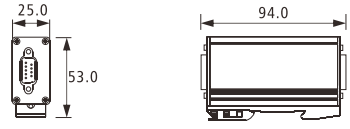


TECHNICAL PARAMETERS:

MODEL	TD7−08/M	TD7-08/F
Electrical Parameters		
Rated Operating Voltage **Un**	12VDC	12VDC
Max Continuous Operating Voltage **Uc**	15VDC	15VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA	5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA
C3 Voltage Protection Level **Up**	X−X⩽45V、X−C⩽600V	X−X⩽45V、X−C⩽600V
Operating Load Current **IL**	180mA	180mA
Common Parameters		
Insertion Loss	⩽0.5dB	⩽0.5dB
Respond Time	<1ns	<1ns
Interface Protection Mode	DB9 M-enter, F-out	DB9 F-enter, M-out
Cut-off Frequency	65MHz	65MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%
Installation Mode	A: with rail	B:without rail



TD7-08/X/A



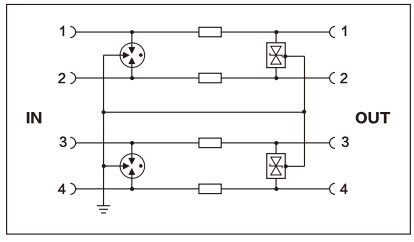
TD7-08/X/B

TD8-13 SERIES CONTROL SIGNAL SPD

This product is specialize for surge protection of RS422, RS485, control circuit of fire protection and automation system. General crimping screw terminal is used for the interface with easy and reliable wiring. It has the equipotential link design to discharge surge to the ground when it occurs and limit the output voltage at a safety value.

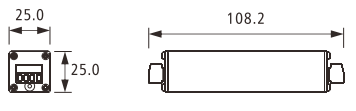


- ► Fast response;
- ► Low insertion loss, no leakage current, and stable transmission performance;
- ► High current flux with strong capability of discharging huge surge;
- ► Variety of installations to satisfy different customers' demands.

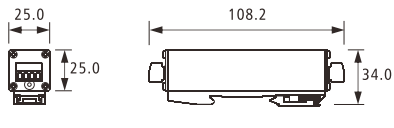


TECHNICAL PARAMETERS:

MODEL	TD8−13−6	TD8-13−12	TD8-13−24	TD8-13−36
Electrical Parameters				
Rated Operating Voltage **Un**	5VDC	12VDC	24VDC	36VDC
Max Continuous Operating Voltage **Uc**	6VDC	18VDC	32VDC	42VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA	5kA	5kA	5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA	1kA	1kA
C3 Voltage Protection Level **Up**	X−X⩽20V、X−C⩽600V	X−X⩽35V、X−C⩽600V	⩽55V	⩽60V
Operating Load Current **IL**	500mA	500mA	500mA	500mA
Common Parameters				
Insertion Loss	⩽0.5dB	⩽0.5dB	⩽0.5dB	⩽0.5dB
Respond Time	<1ns	<1ns	<1ns	<1ns
Interface Protection Mode	Line-pressing side 1/2,3/4	Line-pressing side 1/2,3/4	Line-pressing side 1/2,3/4	Line-pressing side 1/2,3/4
Cut-off Frequency	65MHz	65MHz	65MHz	65MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%	⩽95%	⩽95%
Installation Mode	A: with rail		B:without rail	



TD8-13-X/A



TD8-13-X/B

TD9-02 SERIES 100MB NETWORK SIGNAL SPD & POE NETWORK SIGNAL SPD

100MB NETWORK SIGNAL SPD



POE NETWORK SIGNAL SPD

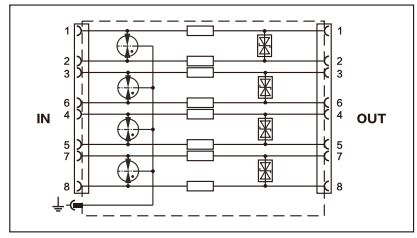


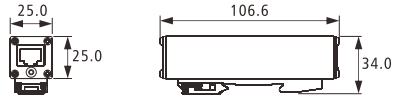
TD9-02/8/L computer network signal SPD is specialize for TCP/IP network and PBX's surge protection. TD9-02/POE SPD is specialize for POE video network monitoring camera's surge protection. It is designed on the basis of IEC communicational lightning protector's standard. Standardized RJ45 interface is adopted with easy and stable wiring. The function of double overcurrent protection greatly enhances the safety of protected equipment.

TECHNICAL PARAMETERS:

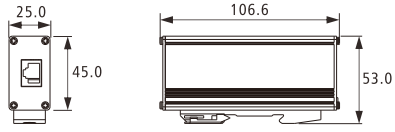
MODEL	TD9-02/8/L
Electrical Parameters	
Rated Operating Voltage **Un**	5VDC
Max Continuous Operating Voltage **Uc**	6.5VDC
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA
D1 Discharge Current(10/350μs)	1kA
C3 Voltage Protection Level **Up**	X–X⩽22V、X–C⩽600V
Common Parameters	
Insertion Loss	⩽0.5dB
Transmission Speed	100Mbit/s
Respond Time	<1ns
Interface Protection Mode	RJ45 1/2,3/6,4/5,7/8
Cut-off Frequency	100MHz
Operating Temperature Range	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%
Installation Mode	A:without rail B:with 35mm's rail

MODEL	TD9-02/POE	
	Signal	Power supply
Electrical Parameters		
Rated Operating Voltage **Un**	5VDC	48V
Max Continuous Operating Voltage **Uc**	6.5VDC	60V
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA	
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	
D1 Discharge Current(10/350μs)	1kA	
C3 Voltage Protection Level **Up**	X–X⩽22V X–C⩽600V	X–C⩽600V
Common Parameters		
Insertion Loss	⩽0.5dB	
Transmission Speed	100Mbit/s	
Respond Time	<1ns	
Interface Protection Mode	RJ45 1/2,3/6,4/5,7/8	
Cut-off Frequency	100MHz	
Operating Temperature Range	-40℃~70℃	
Operating Relative Humidity(indoor Temp)	⩽95%	
Installation Mode	A:without rail B:with 35mm's rail	





TD9–02/8/L/A TD9–02/8/L/B



TD9–02/POE/A TD9–02/POE/B

TD9-02 SERIES RACK-MOUNTED 100MB NETWORK SIGNAL SPD

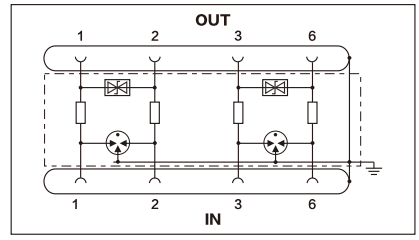
This product is specialize for surge protection of Cat.5 or Cat.5e and other similar systems' Ethernet structure line. This product is designed on the basis of IEC communicational lightning protector's standard. Standardized RJ45 interface is adopted with easy and stable wiring. The function of double overcurrent protection greatly enhances the safety of protected equipment.

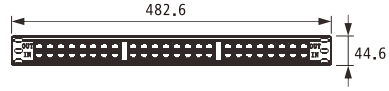
- ► Fast response and high current flux with strong capability of discharging huge surge;
- ► Variety of installations to satisfy different customers' demands;
- ► Low insertion loss, no leakage current, and stable transmission performance;
- ► Standard rack-mounted installation, specialize for surge protection of 8~24 ports' RJ45 interface.

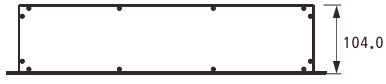


TECHNICAL PARAMETERS:

MODEL	TD9–02/8-08/L	TD9-02/8-16/L	TD9-02/8-24/L
Electrical Parameters			
Rated Operating Voltage **Un**	5VDC	5VDC	5VDC
Max Continuous Operating Voltage **Uc**	6.5VDC	6.5VDC	6.5VDC
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA	2.5kA	2.5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA	1kA
C3 Voltage Protection Level **Up**	X–X⩽22V、X–C⩽600V	X–X⩽22V、X–C⩽600V	X–X⩽22V、X–C⩽600V
Common Parameters			
Insertion Loss	⩽0.5dB	⩽0.5dB	⩽0.5dB
Transmission Speed	100Mbit/s	100Mbit/s	100Mbit/s
Respond Time	<1ns	<1ns	<1ns
Interface Protection Mode	RJ45 1/2,3/6	RJ45 1/2,3/6	RJ45 1/2,3/6
Interface Amounts	8	16	24
Cut-off Frequency	100MHz	100MHz	100MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%	⩽95%



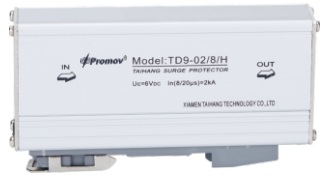


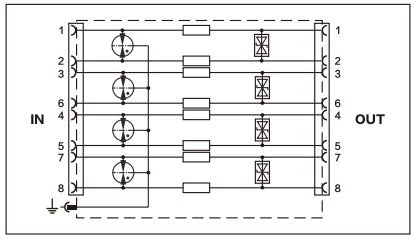


TD9-02 SERIES GIGABYTE NETWORK SIGNAL SPD

Computer network signal SPD is specialized for TCP/IP network and PBX's surge protection. This product is designed on the basis of IEC Communicational lightning protection standard. Normative Cat-6 RJ45 module is adopted, convenient and practical. The function of double overcurrent protection greatly enhances the safety of protected equipment. Terminal protectors are compliant with 1000 BaseT, CAT6 and power over ethernet (POE) application.

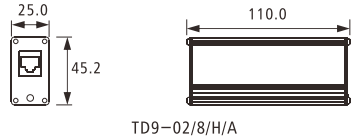
- ► Fast response;
- ► Low insertion loss, no leakage current, and stable transmission performance;
- ► High current flux with strong capability of discharging huge surge;
- ► Variety of installations to satisfy different customers' demands.



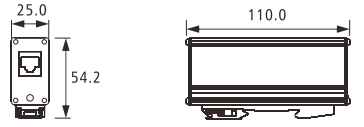


TECHNICAL PARAMETERS:

MODEL	TD9—02/8/H/A	TD9-02/8/H/B
Electrical Parameters		
Rated Operating Voltage **Un**	5VDC	5VDC
Max Continuous Operating Voltage **Uc**	6.5VDC	6.5VDC
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA	2.5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA
C3 Voltage Protection Level **Up**	X—X ⩽22V、X—C⩽600V	X—X ⩽22V、X—C⩽600V
Common parameters		
Respond Time T_A	＜1ns	＜1ns
Transmission Speed	1000Mbit/s	1000Mbit/s
Interface Protection Mode	6 type of lines of module RJ45 1/2, 3/6, 4/5, 7/8	6 type of lines of module RJ45 1/2, 3/6, 4/5, 7/8
Cut-off Frequency	250MHz	250MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%
Installation Mode	A: with rail	B:without rail



TD9—02/8/H/A



TD9—02/8/H/B

TD9-02 SERIES RACK-MOUNTED GIGABYTE NETWORK SIGNAL SPD

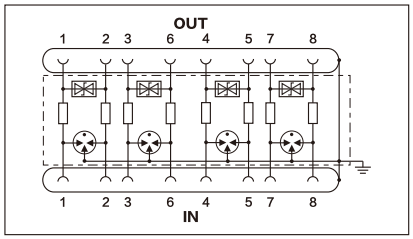
Computer network signal SPD is specialized for TCP/IP network and PBX's surge protection. This product is designed on the basis of IEC Communicational lightning protection standard. Normative Cat-6 RJ45 module is adopted, convenient and practical. The function of double overcurrent protection greatly enhances the safety of protected equipment.

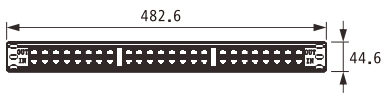


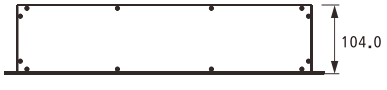
- ► Fast response, high current flux with strong capability of discharging huge current;
- ► Low insertion loss, no leakage current, and stable transmission performance;
- ► Variety of installations to satisfy different customers' demands.
- ► Standard rack-mounted installation, specialize for surge protection of 8～24 ports' RJ45 interface.

TECHNICAL PARAMETERS:

MODEL	TD9-02/8-24/H
Electrical Parameters	
Rated Operating Voltage **Un**	5VDC
Max Continuous Operating Voltage **Uc**	6.5VDC
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA
D1 Discharge Current(10/350μs)	1kA
C3 Voltage Protection Level **Up**	X—X ⩽22V、X—C⩽600V
Common Parameters	
Insertion Loss	⩽0.5dB
Transmission Speed	1000Mbit/s
Respond Time	＜1ns
Interface Protection Mode	RJ45 1/2,3/6,4/5,7/8
Interface Amounts	24
Cut-off Frequency	250MHz
Operating Temperature Range	-40℃~70℃
Operating Relative Humidity (indoor Temp)	⩽95%



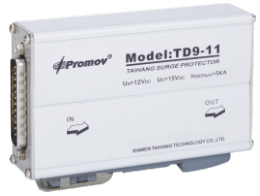


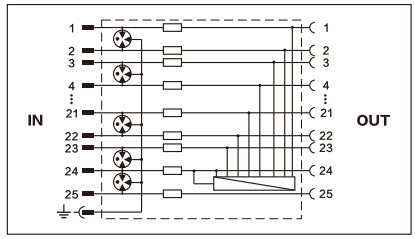


TD9-11/25-24 SERIES PARALLEL-PORT SIGNAL SPD

This product with universal DB25 terminal for interface is specialize for surge protection for all kinds of RS232, DB25 parallel port equipment. When surge comes, it will be discharged to the earth, which limits the output voltage at a safety value.

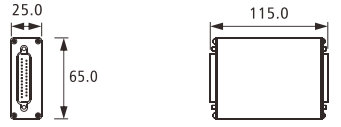
- Fast response;
- Low insertion loss, no leakage current, and stable transmission performance;
- High current flux with strong capability of discharging huge surge;
- High-quality and fast clamping semiconductor with accurate clamping voltage.



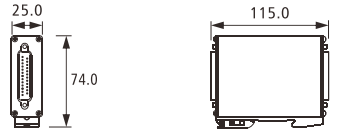


TECHNICAL PARAMETERS:

MODEL	TD9-11/25-24/M	TD9-11/25-24/F
Electrical Parameters		
Rated Operating Voltage **Un**	24VDC	24VDC
Max Continuous Operating Voltage **Uc**	28VDC	28VDC
C2 Nominal Discharge Current(8/20μs) **In**	5kA	5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	10kA	10kA
D1 Discharge Current(10/350μs)	1kA	1kA
C3 Voltage Protection Level **Up**	⩽55V	⩽55V
Operating Load Current **IL**	180mA	180mA
Common Parameters		
Insertion Loss	⩽0.5dB	⩽0.5dB
Respond Time	<1ns	<1ns
Interface Protection Mode	DB25 M-enter, F-out	DB25 M-enter, F-out
Cut-off Frequency	1MHz	1MHz
Operating Temperature Range	-40°C~70°C	-40°C~70°C
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%
Installation Mode	A: without rail	B:with 35mm rail



TD9-11/25-24/X/A



TD9-11/25-24/X/B

TD10-01 SERIES TELEPHONE SIGNAL SPD

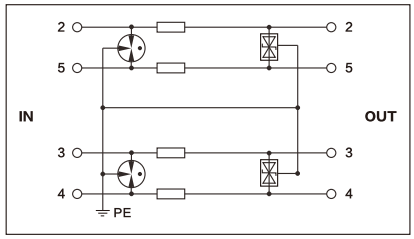
This Product is specialize for surge protection of telephone, fax machine and public radio system. Standardized RJ11 interface is adopted with easy and reliable wiring. It has the equipotential link design to discharge surge to the ground when it occurs and limits the output voltage at a safety value.

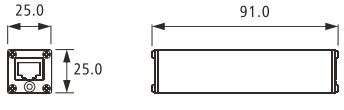
- Fast response, high current flux with strong capability of discharging huge surge;
- Variety of installation methods to satisfy different customers' demands;
- Low insertion loss, no leakage current and stable transmission performance;



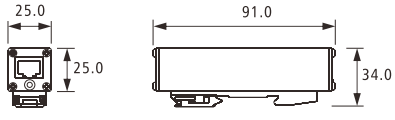
TECHNICAL PARAMETERS:

MODEL	TD10−01/A	TD10-01/B
Electrical Parameters		
Rated Operating Voltage **Un**	170VDC	170VDC
Max Continuous Operating Voltage **Uc**	200VDC	200VDC
C2 Nominal Discharge Current(8/20μs) **In**	2.5kA	2.5kA
C2 Maximum Discharge Current(8/20μs) **Imax**	5kA	5kA
D1 Discharge Current(10/350μs)	1kA	1kA
C3 Voltage Protection Level **Up**	X−X⩽240V、X−C⩽600V	X−X⩽240V、X−C⩽600V
Operating Load Current **IL**	500mA	500mA
Common Parameters		
Insertion Loss	⩽0.5dB	⩽0.5dB
Respond Time	<1ns	<1ns
Interface Protection Mode	RJ11	RJ11
Cut-off Frequency	10MHz	10MHz
Operating Temperature Range	-40℃~70℃	-40℃~70℃
Operating Relative Humidity(indoor Temp)	⩽95%	⩽95%
Installation Mode	A: without rail	B:with 35mm rail





TD10-01/A



TD10-01/B

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